PATENT COOPERATION : EATY

To:	:			PCT					
	see form l	PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 bis.1) Date of malling (day/month/year): see form PCT/SAZ10 (second sheet)					
	licants or agents file form PCT/ISA/2			FOR FURTHER ACTION See paregraph 2 below					
	International application No International filing PCT/CA2004/000669 03.05.2004			dayimonthyear)	Priority date (daymonth/year) 02.05.2003				
	mational Patent Class	sification (IPC) or	both national classification	and IPC	Dr. State Jan.				
		······································							
	olicant IMED, Ahmed Aw	ad El-Sayed							
1.	This opinion co	ntains indicati	ons relating to the foll	owing items:					
	⊠ Box No. I			3					
	⊠ Box No. II	Basis of the opinion							
	_	Priority							
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
	Box No. IV	Lack of unity of invention							
	Ø 8ox No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	☐ Box No. VI	Certain documents cited							
	☐ Box No. VII	Certain defects in the international application							
	☐ Box No. VIII	Certain observations on the international application							
2.	FURTHER ACT	FURTHER ACTION							
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.									
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.									
For further options, see Form PCT/ISA/220.									
3. For further details, see notes to Form PCT/ISA/220.									
Nai	me and mailing addre	ss of the ISA.		Authorized Officer	سطاه البر				
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/CA2004/000669

	D `	A. Dools of the code of						
	ROX V	o. I Basis of the opinion						
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.							
	la	nis opinion has been established on the basis of a translation from the original language into the following nguage—, which is the language of a translation furnished for the purposes of international search index Rules 12.3 and 23.1(b)).						
2.		egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:						
	a. type of material:							
		a sequence listing						
		table(s) related to the sequence listing						
b. format of material:								
		in written format						
		in computer readable form						
	c. time	of filing/furnishing:						
		contained in the international application as filed.						
		filed together with the international application in computer readable form.						
		furnished subsequently to this Authority for the purposes of search.						
3.	h C	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as oppropriate, were furnished.						
4.	Additional comments:							

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/CA2004/000669

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	Box	No. II	Priority				and the second		
1.	⊠	☑ The following document has not been furnished:							
							s.1 and 66.7(a)).		
	translation of the earlier application whose priority has been claimed (Ru						e 43 <i>bis.</i> 1 and 66.7(b)).		
						der the validity of the priority claim ion that the relevant date is the cla			
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.								
3.	Add	litional d	observations, if nec	essary:					
				·					
	Pas	No. V	Passanad state		or Bulo 42	this t/s/ll with remark to sevel			
			applicability; citat	ions and e	er nuie 43 explanatio	bis.1(a)(i) with regard to novelty ns supporting such statement	, inventive step or		
1.		lement							
	Nov	elty (N))	Yes:	Claims	6,7,9,10,16,17,20,21			
		, ,		No:	Claims	1-5,8,11-15,18,19			
	Inve	entive si	tep (IS)	Yes:	Claims				
				No:	Claims	1-21			
	Indi	ustrial a	pplicability (IA)	Yes:	Claims	1-21			
				No:	Claims				

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. The following documents are referred to in this communication:
- D1: US-A-5 557 686 (BROWN MARCUS E ET AL) 17 September 1996 (1996-09-17)
- D2: US-A-5 768 387 (AKIYAMA RYOTA ET AL) 16 June 1998 (1998-06-16)
- 2. INDEPENDENT CLAIM 1
- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.
- 2.2 Document D1 discloses (the references in parenthesis applying to this document): a behavioral biometrics based user verification system for use with a motion based input device, said system comprising a data interception unit for receiving inputs from a user ("first collecting samples containing typing characteristics of an authorized user ... based on key press times and key release times", column 2, lines 15-19. wherein the skilled person would understand from reading D1 as a whole that said motion is in an axial direction in this case), a behavior analysis unit operatively coupled to said data interception unit ("vectors are constructed ... for purifying the samples", column 2, lines 20-22), and a behavior comparison unit operatively coupled to said behavior analysis unit, wherein said system translates behavioral biometrics information into representative data ("the neural network is trained to output whether an input is from an authorized user", column 2, lines 28-29), stores and compares different results, and outputs a user identity result ("the user types the previously determined keystroke sequence ... into the neural network. ... The neural network is then used to determine whether ... the user is authorized", column 2, lines 30-32 and 36-38). Therefore, the subject-matter of independent claim 1 is considered not new.
- INDEPENDENT CLAIM 11

- 3.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 11 is not new in the sense of Article 33(2) PCT.
- 3.2 The same reasoning as stated with respect to claim 1 applies, mutatis mutandis, to the subject-matter of the corresponding independent claim 11, which therefore is also considered not new.
- 4. DEPENDENT CLAIMS 2-10, 12-21
- 4.1 Dependent claims 2-10, 12-21 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT), see documents D1 and D2 and the corresponding passages cited in the search report.